Title of Instructional Materials: Carnegie Learning: Algebra II Common Core

Grade Level: Algebra II

Summary of Carnegie Learning: Algebra II Common Core

Overall Rating:	Important Mathematical Ideas: Weak (1-2) ⊠ Moderate (2-3) □ Strong (3-4)
Summary / Justification / Evidence: Missing standards are as follows: N-CN.8, A-APR.5, A-CED.3, A-REI.11, F-BF.1b, S-MD.6, S-MD.7. The following were not developed well at all or only minimally mentioned: N-CN.2, N-CN.7, N-CN.9, A-APR.4, F-BF.3, A-CED.4F-BF.4a, F-LE.4	Summary / Justification / Evidence: The investigations were good and well developed, but several standards were not well developed in the context of important mathematical ideas.
Skills and Procedures: Moderate (2-3) Strong (3-4)	Mathematical Relationships: ☐ Weak (1-2) ☐ Moderate (2-3) ☐ Strong (3-4)
Summary / Justification / Evidence: Not well connected and seem to be presented as discrete skills in several cases. Not much conceptual understanding outside any context.	Summary / Justification / Evidence: Some were not developed well or there is no discussion in the context of mathematics as a unified whole or as connections outside mathematics

1. Make sense of problems and persevere in solving them.		
Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze		
givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than		
simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to		
gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context o		
the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need.		
Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of		
important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to		
help conceptualize and solve a problem. Mathematically proficient students		
continually ask themselves, "Does this make sense?" They can understand th	e approaches of others to solving	g complex problems and identify
correspondences between different approaches.		
Indicate the department of and/analysis of the department of the d		
Indicate the chapter(s), section(s), and/or page(s) reviewed:	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):	
	or not well developed in tr	ie instructional materials (if any):
Summary / Justification / Evidence:		
	Overall Rating:	$\square 1 \square 2 \boxtimes 3 \square 4$

2. Reason abstractly and quantitatively.		
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to		
bear on problems involving quantitative relationships: the ability to <i>decontextualize</i> —to abstract a given situation and represent it symbolically and		
manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize,		
to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits o		
creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to		
compute them; and knowing and flexibly using different properties of operations and objects.		
Indicate the chapter(s), section(s), and/or page(s) reviewed: Or not well developed in the instructional material or not well developed in the instruction or not well developed in the instruction of the developed in the developed in the instruction of the developed in the instruction of the developed in the instruction of the developed in the developed in the developed in the developed in the d		
Summary / Justification / Evidence:	Overall Rating:	

3. Construct viable arguments and critique the reasoning of other	ers.	
Mathematically proficient students understand and use stated assumptions,	s, definitions, and previously established results in constructing arguments	
They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by		
breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the		
arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose.		
Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that		
which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such a		
objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until late		
grades. Later, students learn to determine domains to which an argument ap		cid
whether they make sense, and ask useful questions to clarify or improve the		
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are missin		
or not well developed in the instructional materials (i		
Summary / Justification / Evidence:		
	Overall Rating : $\Box 1 \Box 2 \Box 3 \Box 4$	

4. Model with mathematics.		
Mathematically proficient students can apply the mathematics they know to	solve problems arising in everyday life, society, and the workplace. In early	
grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to		
plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to		
describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making		
assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important		
quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can		
analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and		
reflect on whether the results make sense, possibly improving the model if it	has not served its purpose.	
Indicate the chapter(s), section(s), and/or page(s) reviewed:	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):	
Summary / Justification / Evidence:	Overall Rating:	

5. Use appropriate tools strategically.			
Mathematically proficient students consider the available tools when solving	g amathematical problem. These tools might include pencil and paper,		
concretemodels, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software.			
Proficient students aresufficiently familiar with tools appropriate for their grade or course to make sounddecisions about when each of these tools migl			
be helpful, recognizing both theinsight to be gained and their limitations. For example, mathematically proficienthigh school students analyze graphs of			
functions and solutions generated using agraphing calculator. They detect possible errors by strategically using estimationand other mathematical			
knowledge. When making mathematical models, they knowthat technology can enable them to visualize the results of varying assumptions, explore			
consequences, and compare predictions with data. Mathematicallyproficient students at various grade levels are able to identify relevant			
externalmathematical resources, such as digital content located on a website	externalmathematical resources, such as digital content located on a website, and use themto pose or solve problems. They are able to use technological		
tools to explore anddeepen their understanding of concepts.			
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are missing			
or not well developed in the instructional materials (if a			
Summary / Justification / Evidence:			
	Overall Rating : $\Box 1 \Box 2 \Box 3 \Box 4$		
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6. Attend to precision.		
Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own		
reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about		
specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently,		
express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated		
explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.		
Indicate the chapter(s), section(s), and/or page(s) reviewed:	d: Portions of the domain, cluster, and standard that are missing	
	or not well developed in the instructional materials (if any):	
Summary / Justification / Evidence:		
building / Justineution / Evidence:	Overall Rating: $\Box 1 \Box 2 \Box 3 \Box 4$	

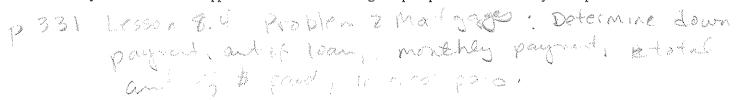
7. Look for and make use of structure.		
Mathematically proficient students look closely to discern a pattern or struct	ure.Young students, for example, might notice that three and seven more is	
the sameamount as seven and three more, or they may sort a collection of sh	apes accordingto how many sides the shapes have. Later, students will see 7	
$^{\circ}$ — 8 equals thewell-remembered 7 $^{\circ}$ — 5 + 7 $^{\circ}$ — 3, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older		
students can see the 14 as 2 °— 7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of		
drawing an auxiliary line for solving problems. They also can step back for an	overview and shift perspective. They can seecomplicated things, such as	
some algebraic expressions, as single objects or asbeing composed of several objects. For example, they can see $5 - 3(x - y)2$ as 5 minus a positive number		
times a square and use that to realize that its value cannotbe more than 5 for	any real numbers x and y.	
Indicate the chapter(s), section(s), and/or page(s) reviewed:	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):	
Summary / Justification / Evidence:	Overall Rating:	

8. Look for and express regularity in repeated reasoning.		
Mathematically proficient students notice if calculations are repeated, and lookboth for general methods and for shortcuts. Upper elementary students		
mightnotice when dividing 25 by 11 that they are repeating the same calcula		
paying attention to the calculation of slope as they repeatedly check whether		
might abstract the equation $(y-2)/(x-1)=3$. Noticing the regularity in the way terms cancel when expanding $(x-1)(x+1)$, $(x-1)(x^2+x+1)$, and $(x-1)(x^2+x+1)$		
1)(x3 + x2 + x + 1) might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient		
students maintain oversight of the process, whileattending to the details. They continually evaluate the reasonableness of theirintermediate results.		
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are miss		
	or not well developed in the instructional materials (if any):	
Summary / Justification / Evidence:		
	Overall Rating : $\Box 1 \Box 2 \Box 3 \boxtimes 4$	
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Reviewed By:	
Title of Instructional Materials:	COCNOCIA

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.



Overall Rating

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



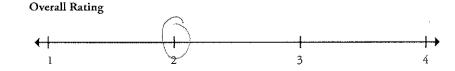
Reviewed By:	
Title of Instructional Materials:	Carpeteral

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:		
Title of Instructional Materials:	Carnegie	

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Overall Rating

P145-146: Problem 2 End Behavior

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	Carnegie

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

P 601-11.5- Rabbits Everywhere. Give an 35's weed to bettern a the population of the particle of the particle

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



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Title of Instructional Materials:		

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Car Loan , 327 Lesson & I use a Ge to determine a monthly payment for a car loan. Look at Look at James Factor Reanalyze the problem by making \$500 amonths. How now payments? How may payment ? How may payment ? How may payment ?

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials	Pasana P

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



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Title of Instructional Materials:	Curreal

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

P 481: Irvestigal. Factoring

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	Carner

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

P230: problem 2 multiply a complex # by its conjugate. What happened Explan.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Title of Instructional Materials:

Carnegie

ALGEBRA II — NUMBER AND QUANTITY (N)

Perform arithmetic operations with complex numbers. Summary and documentation of how the domain, cluster, a met. Cite examples from the materials.						
N-CN.1 Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real.	Important Mathematical Ideas Straight forward 1 2 3 4					
4-3 p 226 a+bi	Skills and Procedures 1 1 2 3 4					
	Mathematical Relationships 1 2 3 4 Some explaination problems					
	Summary / Justification / Evidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):					
	Overall Rating 1 2 3 4					

Reviewed By:	
Title of Instructional Materials:	

ALGEBRA II — NUMBER AND QUANTITY (N)

Perform arithmetic operations with complex numbers.	Summary and documentation met. Cite examples from the			ter, and stan	dard are
N-CN.2 Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers. Note: I^2 as highest power of I .	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures (1		3	→
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	, vidence	L	,	4
	Portions of the domain, clus developed in the instruction			nissing or no	ot well
	Overall Rating	1	2	3	 → 4

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Title of Instructional Materials:

ALGEBRA II — NUMBER AND QUANTITY (N)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
N-CN.7 Solve quadratic equations with real coefficients that have complex solutions. Note: Polynomials with real coefficients.	Important Mathematical Ideas		2	3	4
p 226 4.3 2 problems # 270 b	Skills and Procedures		2	3	
# 27-9-6	Mathematical Relationships	0	2	3	, 4
	Summary / Justification / E	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

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Title of Instructional Materials:	Cacnall

ALGEBRA II - NUMBER AND QUANTITY (N)

The Complex Number System (N-CN)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.					
N-CN.8						
(+) Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x - 2i)$.	Important Mathematical Ideas	1	2	3	4	
Note: Polynomials with real coefficients.						
	Skills and Procedures	(
		1	2	3	4	
	Mathematical Relationships	4	1		i 	
		1	2	3	4	
	Summary / Justification / E	vidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
	Portions of the domain, clu developed in the instruction			missing or n	ot well	
	Not covered					
	Overall Rating	(2	- 3		

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Title of Instructional Materials:

ALGEBRA II — NUMBER AND QUANTITY (N)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
N-CN.9	Important Mathematical Ideas		ī	ı	1.5
(+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Important Mathematical Ideas		2	3	4
Note: Polynomials with real coefficients.					
10.3: P383- Stated Find Ton 895	Skills and Procedures		2	3	
10.3: P383- Stated Find Ton 895				3	* !
Not many problems arolving	Mathematical Relationships		2	3	4
0.000 100 100 100 100 100 100 100 100 10		and the second of the second o			
<i>)</i>	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or	not well
	Overall Rating	(1		1	

Reviewed By:	 	

Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
A-SSE.1a 1. Interpret expressions that represent a quantity in terms of its context.*	Important Mathematical Ideas 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
 Interpret parts of an expression, such as terms, factors, and coefficients. 					
Note: Polynomial and rational.	Skills and Procedures				
16,2 -10,5	1 2 3 4				
P3 45	Mathematical Relationships				
but not really see and	2 3 4				
but not raning see and					
	Summary / Justification / Evidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating				

Title of Instructional Materials: ________

ALGEBRA II — ALGEBRA (A)

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
 A-SSE.1b 1. Interpret expressions that represent a quantity in terms of its context.* b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret P(1+r)ⁿ as the product of P and a factor not depending on P. Note: Polynomial and rational. 4.3 '. ρ 3 λ *	Important Mathematical Ideas A Control of the Cont	1	1 2	3	4
Find K	Mathematical Relationships	1		3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
	Portions of the domain, cludeveloped in the instruction			missing or no	it well
	Overall Rating	4 1	(1)	3	4

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Title of Instructional Materials:

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ALGEBRA II — ALGEBRA (A)

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
A-SSE.2 Use the structure of an expression to identify ways to rewrite it. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that	Important Mathematical Ideas 1 2 3 4				
can be factored as $(x^2 - y^2)(x^2 + y^2)$. Note: Polynomial and rational. 10.5 p 479 Factoring	Skills and Procedures 1				
	Summary / Justification / Evidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating 1 1 2 3 4				

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Title of Instructional Materials: Carnegic

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ALGEBRA II — ALGEBRA (A)

Seeing Structure in Expressions (A-SSE)

Summary and documentation of how the domain, cluster, and standard are Write expressions in equivalent forms to solve problems. met. Cite examples from the materials. A-SSE.4 Important Mathematical Ideas Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. For example, calculate mortgage payments.* Skills and Procedures 122 Am gorp a model 123 p645 poster 2 124 SUMBANNER 60 SOM Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 2

Reviewed By:	

ALGEBRA II — ALGEBRA (A)

Perform arithmetic operations on polynomials.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-APR.1 Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Important Mathematical Ideas 1 3 4
Note: Beyond quadratic. The concrp of closed is discussed in another chapter bannot here. +, -, x is	Skills and Procedures Basic Problems 3 4
Confred box were in the confreshing to the confresh	Mathematical Relationships 1 3 4 Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Closed polynomials is not discussed
	Overall Rating 1 1 3 4

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Title of Instructional Materials: <u>Carnegie</u>

ALGEBRA II — ALGEBRA (A)

Arithmetic with Polynomials and Rational Expressions (A-APR)

Understand the relationship between zeros and factors of polynomials.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				ndard are
A-APR.2 Know and apply the Remainder Theorem: For a polynomial $p(x)$ and a number a , the remainder on division by $x - a$ is $p(a)$, so $p(a) = 0$ if and only if $(x - a)$ is a factor of $p(x)$.	Important Mathematical Ideas	` 1		3	4
P 397; Lesson 10,5	Skills and Procedures	← [1		3	4
	Mathematical Relationships	1	<u> </u>	3	4
	Summary / Justification / E	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cle developed in the instruction			missing or n	not well
	Overall Rating	1		3	

The Charles A. Dana Center 24

Title of Instructional Materials: _______ Case and ______

ALGEBRA II — ALGEBRA (A)

Arithmetic with Polynomials and Rational Expressions (A-APR)

Understand the relationship between zeros and factors of polynomials.

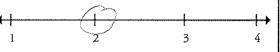
Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

A-APR.3

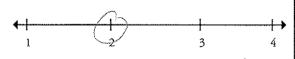
Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.

p135 Lesson3, 5 Problem 2 just stated. No examples to look at

Important Mathematical Ideas



Skills and Procedures



Mathematical Relationships

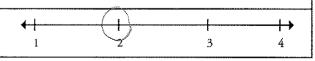


Summary / Justification / Evidence

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



Title of Instructional Materials:

ALGEBRA II — ALGEBRA (A)

Use polynomial identities to solve problems.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
A-APR.4 Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2$ can be used to generate Pythagorean triples.	Important Mathematical Ideas		2	3	→ 4
Can't find this concept covered	Skills and Procedures	4	2	3	4
Problem #2 2000 1000	Mathematical Relationships	4	2	3	4
only one poblem	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Summary and documentation of how the domain, cluster, and standar met. Cite examples from the materials.			idard are	
Important Mathematical Ideas	. 1	ı	1	[]
important iviathematical ideas	1	2	3	4
Skills and Procedures	 	2.	3)
	•	~	ų.	1 :
Mathematical Relationships	1	2	3	 4
Summary / Justification / Ev	/idence			
Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				not well
Overall Rating				
	met. Cite examples from the Important Mathematical Ideas Skills and Procedures Mathematical Relationships Summary / Justification / Ex Portions of the domain, cluedeveloped in the instruction	met. Cite examples from the materials. Important Mathematical Ideas 1 Skills and Procedures 1 Mathematical Relationships 1 Summary / Justification / Evidence Portions of the domain, cluster, and st developed in the instructional material	met. Cite examples from the materials. Important Mathematical Ideas 1 2 Skills and Procedures 1 2 Mathematical Relationships 1 2 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are developed in the instructional materials (if any):	met. Cite examples from the materials. Important Mathematical Ideas 1 2 3 Skills and Procedures 1 2 3 Mathematical Relationships 1 2 3 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are missing or a developed in the instructional materials (if any):

Reviewed By:	
Title of Instructional Materials:	Carnesit

Rewrite rational expressions.	Summary and documentation of how the domain, cluster, and somet. Cite examples from the materials.	tandard are
A-APR.6 Rewrite simple rational expressions in different forms; write $a(x)/b(x)$ in the form $q(x) + r(x)/b(x)$, where $a(x)$, $b(x)$, $q(x)$, and $r(x)$ are polynomials with the degree of $r(x)$ less than the degree of $b(x)$, using inspection, long division, or, for the more complicated examples, a computer algebra system.	Important Mathematical Ideas 1 2 3 Sheatight Colonics	4
Note: Linear and quadratic denominators.	Skills and Procedures	
Lesson 10.4 P387	No application projecting	4
	Mathematical Relationships 1 3	
	Summary / Justification / Evidence	
Indicate the chapter(s), section(s), and/or page(s) reviewed.		
	Portions of the domain, cluster, and standard that are missing of developed in the instructional materials (if any):	or not well
	Overall Rating 1 3	4

Reviewed By:	
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Title of Instructional Materials:	Carnealt
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Rewrite rational expressions.	Summary and documentati met. Cite examples from the	on of how the domain, cluster, and standard are e materials.
A-APR.7 (+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.	Important Mathematical Ideas No 10769 (ga)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Note: Linear and quadratic denominators. Problem 2 Add + Sub Problem 2 Add + Sub Problem 3 Add + Sub Problem 2 Add + Sub	Skills and Procedures No Palus Mathematical Relationships Summary / Justification / Ex	1 (2) 3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	developed in the instruction	ster, and standard that are missing or not well nal materials (if any): Lional Numbers is not not but is covered in Real pumbles 1 2 3 4

Title of Instructional Materials:

Carnegie

ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Creating Equations (A-CED)				otor and oton	dord oro
Create equations that describe numbers or relationships. Summary and documentation of how the domain, cluster, and star met. Cite examples from the materials.			luaru are		
A-CED.1	Important Mathematical Ideas		1	t	1 5
Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.*	important iviatrierratical roeas	\	2	3	4
Note: Equations using all available types of expressions, including simple root functions.	01:11	<u></u>			
Rational (7.4) 5's do not create any they just solve them (No word problems to solve)	Skills and Procedures	1	2	3	4
Radical (8,3)	Mathematical Relationships	(1)			+
Polynomial (10.8) (P417) 11		Y	2	3	4
Log(9.2) p 349: 11					
Linear (4,2)? solve only	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			e missing or n	iot well
	exponential?				
	Overall Rating		2	3	
	<u>. k </u>				

Reviewed By:		
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THIE OF INSTRUCTIONAL MATERIALS:	Title	f Instructional Materials:
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ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
A-CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.*	Important Mathematical Ideas	1	1 2		
Note: Equations using all available types of expressions, including simple root functions. 8, 4 - Yet covered have no graphing of covered to the covered to	Skills and Procedures	(]	· 2	(1)	4
9,3 p351, write a function given P=Bert + then graph Cexp Fundam 0354 Poblem 2-write and but	Mathematical Relationships	1	2	4	
Son't graph Caplo Not covered hav	Summary / Justification / E	vidence		`	
Indicate the chapter(s), section(s), and/or page(s) reviewed. 7.6 ptod mixture problem-write an eg to caph (eathern fountion) ptos: owner ship problem- The 8-Rodical-Not covered here	Portions of the domain, cludeveloped in the instruction			e missing or n	ot well
11.5 p 601: Applications of Circular Funda- Trio-eg is given, but general	Overall Rating	1	2		1 4

The Charles A. Dana Center

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Reviewed By:	
Title of Instructional Materials:	

ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Create equations that describe numbers or relationships. Summary and documentati met. Cite examples from the			on of how the domain, cluster, and standard are e materials.				
A-CED.3 Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable	Important Mathematical Ideas	← [2	3	4		
options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.* Note: Equations using all available types of expressions, including simple root functions.	Skills and Procedures	← 1	2	3	4		
Not some if covered	Mathematical Relationships	(2		1		
Chp 167 (Rish after Chip4)	Summary / Justification / E	vidence	-	ŭ			
Indicate the chapter(s), section(s), and/or page(s) reviewed.							
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well		
	Overall Rating	1	2	3	4		

Reviewed By:

Title of Instructional Materials:

To And Delight week	<u>.</u>	(1×Q	01	Ç.	Z*		
7				·····				

ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentat met. Cite examples from the		•	ster, and sta	ndard are
A-CED.4			Sec. 2		
Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law $V = IR$ to highlight resistance $R.*$	Important Mathematical Ideas	1		3	
Note: Equations using all available types of expressions, including simple root functions.	01.77				
Sec 8, 3 p 3 04 problem # 3	Skills and Procedures		2	3	4
Sec 8,3 p324 problem #3 \$Ao = No Ekt Solve for k	Mathematical Relationships		2	3	· · · · · · · · · · · · · · · · · · ·
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	Evidence			
	Portions of the domain, cludeveloped in the instruction			e missing or	not well
	Overall Rating	()	2		

Reviewed By:	

Title of Instructional Materials:

ALGEBRA II — ALGEBRA (A)

Reasoning with Equations and Inequalities (A-REI)

Understand solving equations as a process of reasoning and explain the reasoning.	Summary and documentation met. Cite examples from the			ter, and star	ndard are
A-REI.2	in a single Mathematical Ideas				
Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	Important Mathematical Ideas	1		3	4
Note: Simple radical and rational.					
Rational > 374 Sec 7.4 50,60 4 problems	Skills and Procedures	1		3	4
Radical P 431 sec 8,3 problem ?	Mathematical Relationships	←]		3	, 1 + 4
	Applied to the	dista	ce Cornul	* \.\$.	
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.			•		
	Portions of the domain, clu developed in the instruction			missing or r	not well
	Overall Rating		<u> </u>		

Reviewed By:	

Title of Instructional Materials:	Chronic

ALGEBRA II — ALGEBRA (A)

Reasoning with Equations and Inequalities (A-REI)

Represent and solve equations and inequalities graphically.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				ndard are
A-REI.11	•				
Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately, e.g., using technology to graph	Important Mathematical Ideas	1	2	3	4
the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.*	Skills and Procedures	 			 -)
Note: Combine polynomial, rational, radical, absolute value, and exponential functions.		1	2	3	4
Chp 10 11 gg	Mathematical Relationships	1	2	3	;
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			missing or r	not well
	Not Good				
	Overall Rating				+

The Charles A. Dana Center

35

Reviewed By:		
Title of Instructional Materials:	Carregic	

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-IF.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship.	Important Mathematical Ideas 1 2 3 4
Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.*	Skills and Procedures 1 2 3 4
Note: Include rational, square root and cube root; emphasize selection of appropriate models. 7.3ilog (p 297) increasing / decreasing/intercepts 3.6 polynomial (p14) relative model man, end characteristics intercepts	Mathematical Relationships 1 2 3 4
7.5(0383) retional: increasing/desensing, ramp?	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	
8,4 sq root & cub root, end behavior	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating
	1 2 3 4

Reviewed By:	
Title of Instructional Materials:	

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standa met. Cite examples from the materials.				ndard are	
F-IF.5	to a start Mark a matical Ideas			· . /."		
Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.*	Important Mathematical Ideas	1	2	3	4-	
Note: Emphasize selection of appropriate models.	Skills and Procedures	+-			/ D	
> p298, 7.3, Log Problem 3 - domain		1	2	3	4	
P141, 3.6, Domain & Kang & polynomial Functions	Mathematical Relationships				/}	
> p387 7.5: rational -domain		1	2	3	4	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence				
	Portions of the domain, clu developed in the instructio			e missing or	not well	
	Overall Rating	41				

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Reviewed By:	
Title of Instructional Materials:	Carnox ic

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
F-IF.6 Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*	Important Mathematical Ideas	1	2	Ç	4
Note: Emphasize selection of appropriate models. P 3 59 Population thoose Frate of change Thus is for an exponental	Skills and Procedures	1	2	3	4
function.	Mathematical Relationships	1	2	1 3	 → 4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cludeveloped in the instruction	nal material		ere missing or r	not well
	Overall Rating	(1 1 1 1 1 1 1 1 1 	2		4

Reviewed By:	
Title of Instructional Materials:	Curvent

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standa met. Cite examples from the materials.				
 F-IF.7b 7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.* 	Important Mathematical Ideas	(_ _	2		4
 b. Graph square root, cube-root, and piecewise-defined functions, including step-functions and absolute value functions. 	Skills and Procedures	+ 		<u></u>	
Note: Focus on using key features to guide selection of appropriate type of model function. LESSON E. I sq root, cubo root LESSON T. 5 547 Guardians problem 3	Mathematical Relationships	1	2		; 1 + 4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cludeveloped in the instruction	nal materia		e missing or no	ot well
	Overall Rating	 	2	+	4

Reviewed By:		

${\bf ALGEBRA~II--FUNCTIONS~(F)}$

Interpreting Functions (F-IF)

Analyze functions using different representations.	se functions using different representations. Summary and documentation of how the domain, cluster, and standamet. Cite examples from the materials.				
F-IF.7c7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*	Important Mathematical Ideas	1	2	3	
Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior. Note: Focus on using key features to guide selection of appropriate type of model function.	Skills and Procedures	1	2	3	
P110: Lesson 3.2 Polynom. of (God D. R. int, zeros using G.C) There can all be done by hora p137: factor, zeros, end behavior, graph	Mathematical Relationships	1	2	3	:
by hand	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:

Carregia

ALGEBRA II — FUNCTIONS (F)

Interpreting Functions (F-IF)

А	nalyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			ard are	
F-	IF.7e Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*	Important Mathematical Ideas	1	2		4
	 Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude. 	Skills and Procedures	1	2	3	
	ote: Focus on using key features to guide selection of appropriate type of model function. 11, 2: Trig - show period, Middling amplitude 7.3, 7.4: Log functions, basic differs formula.	Mathematical Relationships	1	2	3	; — <u>↓</u> 4
到) Ir	7,1 ivery simple exp funktions engry 3.1: Power Functions adicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence			
		Portions of the domain, clu developed in the instructio			e missing or no	t well

Reviewed By:	
Title of Instructional Materials:	

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	Important Mathematical Ideas	(3	
Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context. Note: Focus on using key features to guide selection of appropriate type of model function.	Skills and Procedures	(3	→ 4
Lesson 3.5 pl31: Find zeros by factoring againstratic, using the Qformals - a G.C.	Mathematical Relationships	1		3	;
Graph	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction	nal materi:	als (if any):		
	Overall Rating	1	$\begin{pmatrix} \hat{\mathbf{f}} \\ 2 \end{pmatrix}$	3	4

Reviewed By:	
Title of Instructional Materials:	Carnenie

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
F-IF.8b8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	Important Mathematical Ideas	 	2	3	4
b. Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02)^t$, $y = (0.97)^t$, $y = (1.01)^{12t}$, $y = (1.2)^{\nu 10}$, and classify them as representing exponential growth or decay.	Skills and Procedures	1	<u> </u> 2	3	
Note: Focus on using key features to guide selection of appropriate type of model function. LESSON 8.3 P319 Application problem EXP Growth & Lecay	Mathematical Relationships	 	2	3	:
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or r	not well
	Overall Rating	1	1 2	3	

Reviewed By:	
Title of Instructional Materials:	Carnegil

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation met. Cite examples from the		domain, clust	er, and stand	lard are
F-IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum.	Important Mathematical Ideas	1	(3	4
Note: Focus on using key features to guide selection of appropriate type of model function.	Skills and Procedures	1		3	4
Lesson 3.7 : compare table to raphs of 4 creeks	Mathematical Relationships	1	<u></u>	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
mulcate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clus developed in the instruction			nissing or no	t well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	Carrent

Building Functions (F-BF)

Build a function that models a relationship between two quantities.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
F-BF.1b	Important Mathematical Ideas	4 [1	· · · · · · · · · · · · · · · · · · ·	
1. Write a function that describes a relationship between two quantities.*	important stationation lacas	{ 	i	<u>i</u>	
b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	Skills and Procedures	1 	2.	3	4
Note: include all types of functions studied.		1	2	3	4
					1
	Mathematical Relationships				
		1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence				
	Portions of the domain, clus developed in the instruction	nal material		missing or n	ot well
	Not coverce	<i>4</i> /			
	Overall Rating				
	Overall Nating	1	2		4

Reviewed By:

ALGEBRA II — FUNCTIONS (F)

Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentati met. Cite examples from the			luster, and star	ndard are
F-BF.3					.,
Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of	Important Mathematical Ideas	1	2	3	4
the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.	Skills and Procedures				∕ •\\
Note: Include simple-radical, rational, and exponential-functions; emphasize common effect of each transformation across function types.		1	2	3	
11.2: Trig					•
1-7.4: Log	Mathematical Relationships	(1	
3.1: Exp		1	2	3	4
7.5: Rational 8.4: Radical					
8,4: Radical	Summary / Justification / Evidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			re missing or r	ot well
	Overall Rating	((++)
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	Pachecie

Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentation met. Cite examples from the		·	ster, and stan	dard are
F-BF.4a	I a a a de at Mathematical Ideas				
4. Find inverse functions.	Important Mathematical Ideas	1		3	4
a. Solve an equation of the form $f(x) = c$ for a simple function f that has an inverse and write an expression for the inverse. For example, $f(x) = 2 x^3 \text{ or } f(x) = (x+1)/(x-1) \text{ for } x \neq 1.$		*	_	J	•
Note: Include simple radical, retienal, and exponential functions; emphasize common effect of each transformation across function types.	Skills and Procedures	{ 		3	
LESSON B. 1 P 413 Inverse of radical Graphing Not		i	£	5	;
		- 	/1\		
Lesson 7.1 p 281 Inverse of log by graphing	∌	1	(2)	3	4
not algebrashy care					
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or n	ot well
	Not Radical				
	Overall Rating	+	$-\langle + \rangle$		
		1	~_2	3	4

Reviewed By:

Title of Instructional Materials: Carneare

ALGEBRA II — FUNCTIONS (F)

Linear, Quadratic, and Exponential Models (F-LE)

Construct and compare linear, quadratic, and exponential models and Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. solve problems. F-LE.4 Important Mathematical Ideas For exponential models, express as a logarithm the solution to $ab^{a} = d$ where a. c. and d are numbers and the base b is 2, 10, or e; evaluate the logarithm using technology.* Note: Logarithms as solutions for exponentials. Skills and Procedures - Jesson 7.2? , 289 #1 They a few basic problem Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 4

15

Reviewed By:	

Title of Instructional Materials: _______ Carneg; e

Parnegie

ALGEBRA II — FUNCTIONS (F)

Trigonometric Functions (F-TF)

Extend the domain of trigonometric functions using the unit circle.	Summary and documentation of how the domain, cluster, and standard at met. Cite examples from the materials.
F-TF.1 Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle.	Important Mathematical Ideas 1 2 3
Lesson 10.1 p 530 Radian measure	Skifls and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Reviewed By:	
Title of Instructional Materials:	(acreasy

Trigonometric Functions (F-TF)

Extend the domain of trigonometric functions using the unit circle.	Summary and documentation met. Cite examples from the		domain, cluste	er, and stand	dard are
F-TF.2	1				
Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	Important Mathematical Ideas	1	2	3	4
Lesson 10.1 p 529 unit circle	Skills and Procedures	1	2		4
					!
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	ridence			*
	Portions of the domain, clus developed in the instruction			ilssing or no	ot well
	Overall Rating	1	1 2	3	4

Reviewed By:	
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Title of Instructional Materials:

ALGEBRA II — FUNCTIONS (F)

Trigonometric Functions (F-TF)

Model periodic phenomena with trigonometric functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				ındard are
F-TF.5 Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.*	Important Mathematical Ideas			3	
Lesson 11.5 pool: Applications - model discolar Gundons	Skills and Procedures	 	2	3	+
Lesson 11.2 ps75 amp, Freq, plase shy	Mathematical Relationships	1	2	3	
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			missing or	not well
	Overall Rating	 	2	3	1 4

Reviewed By:	
Title of Instructional Materials:	

Trigonometric Functions (F-TF)

Prove and apply trigonometric identities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.		
F-TF.8 Prove the Pythagorean identity $\sin 2(\theta) + \cos 2(\theta) = 1$ and use it to find $\sin(\theta)$, $\cos(\theta)$, or $\tan(\theta)$ given $\sin(\theta)$, $\cos(\theta)$, or $\tan(\theta)$ and the quadrant of the angle.	Important Mathematical Ideas 1 2 3 4		
Lesson II. 3 Trig Identifies The Pythagorean Identify ps89 (s's develop (his)	Skills and Procedures 1 2 3 4		
D Lesson 11.4, solve Trig &g	Mathematical Relationships 1 2 3 4		
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence		
indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):		
	Overall Rating 1 2 3 4		

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Title of Instructional Materials:	Carnegic

Interpreting Categorical and Quantitative Data (S-ID)

Summarize, represent, and interpret data on a single count or measurement variable.	Summary and documentation of how the domain, cluster, and standard ar met. Cite examples from the materials.					
S-ID.4 Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.	Important Mathematical Ideas	1	2	3		
spreadsheets, and tables to estimate areas under the normal curve. P 765 Lesson 17.3 , 17.4 , 17.5 d 17.6 , 17.7	Skills and Procedures	1	2	3	1	
·	Mathematical Relationships	1	2	3		
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence				
	Portions of the domain, clu developed in the instruction			iissing or n	ot well	
	Overall Rating	1	2	3		

Reviewed By:

Title of Instructional Materials: _____Carnegic

ALGEBRA II — STATISTICS AND PROBABILITY (S)

Making Inferences and Justifying Conclusions (S-IC)

Understand and evaluate random processes underlying statistical experiments.	Summary and documentati met. Cite examples from th		e domain, clu	ster, and sta	ndard are
S-IC.1 Understand statistics as a process for making inferences about population parameters based on a random sample from that population.	Important Mathematical Ideas Javes Garage Skills and Procedures	1	2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships Summary / Justification / E	1 ↓ 1 vidence	2 	3 	
	Portions of the domain, clu developed in the instruction			e missing or	not well

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Title of Instructional Materials:	CAENRAIC

Making Inferences and Justifying Conclusions (S-IC)

Understand and evaluate random processes underlying statistical experiments.	Summary and documentation of how the domain, cluster, and started met. Cite examples from the materials.				dard are
S-IC.2	to a subsect to the subsection of the subsection			(3	
Decide if a specified model is consistent with results from a given data- generating process, e.g., using simulation. For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?	Important Mathematical Ideas	1	2	3	4
Penny Toss Same, s's actually do this experience	Skills and Procedures	1	2	3	4
do this experience	Mathematical Relationships	 	1 2	1)	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			re missing or n	ot well
	Overall Rating	← 1		3	1 4

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Title of Instructional Materials:	

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.			
S-IC.3	Important Mathematical Ideas			
Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.	•	1 2 3 4		
p737 (12.2)	Skills and Procedures	1 2 3 4		
	Mathematical Relationships	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	Summary / Justification / Ev	vidence		
Indicate the chapter(s), section(s), and/or page(s) reviewed.				
	Portions of the domain, clus developed in the instruction	ster, and standard that are missing or not well nal materials (if any):		
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Title of Instructional Materials:	Carnes: P

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard ar met. Cite examples from the materials.				dard are
S-IC.4				_	
Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.	Important Mathematical Ideas	1	2	3	4
Chp 7, 16, 17	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	1 3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clus developed in the instruction			re missing or n	ot well
	margin of en	<i>(0</i>)			
	Overall Rating		2		→ 4

Reviewed By:	
Title of Instructional Materials:	

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.		
S-IC.5 Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.	Important Mathematical Ideas 1 2 3		
p 767 Lesson 17.2 Basketball (make 5 Free troops to row of a deast 7 out of to Free throos)	Skills and Procedures 1 2 3		
p 783 Lesson M.3 E-Phone recharge of	Mathematical Relationships 1 2 3 4		
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence		
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):		
	Overall Rating 1 2 3 4		

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Title of Instructional Materials:	

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standa met. Cite examples from the materials.				ndard are
S-IC.6	Important Mathematical Ideas	. 1	F	r	(T)
Evaluate reports based on data.	·	1	2	3	4
p823 (17.7) Applications of horses D.	strouton				
p 745 (16.4) Evaluate raports	Skills and Procedures	 		3	
p823 (17.7) Applications of bornel De p745 (16.4) Evaluate reports p327 (7.5) s's design their own experiences	Mathematical Relationships	1		3	1
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			missing or r	not well
	Overall Rating	← 1	2	 3	

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Title of Instructional Materials:	Corneally

Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.			ndard are	
S-MD.7					
(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).	Important Mathematical Ideas	1	2	3	4
Note: Include more complex situations.					
	Skills and Procedures	 			→
		1	2	3	4
					}
	Mathematical Relationships	 			 →
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluded developed in the instruction			missing or r	ot well
	Not covered				
·	Overall Rating		<u> </u>		
	Overall Nating	('' 	3	4

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Title of instructional Materials:	Carrey 19	Can vin	651	Convec	COVO

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Summary/Justification/Evidence

The the Muskyothers, students are led

There - Rock Solv-stretgy that as his them

to be thorough and is complete Sendences, students are also ancompt to shore and explain reasoning

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Their two chapters were significantly different the was not well developed and or integrated in real - world



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Title of Instructional Materials:	

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch . 8

Chis

Summary/Justification/Evidence

Ch. 5 Strants engager, it reasons by looky for p-tours, describy, explaining and evaluating it it news sense Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Ch. 8 is ver sparse in its development of any type of reasony



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Title of Instructional Materials:	

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 8

Summary/Justification/Evidence

I cans and question, throughout the chapter signal the students to discuss in groups or to show with the class Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



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Title of Instructional Materials:	

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch.5, 8

Summary/Justification/Evidence

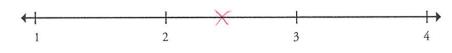
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so that shalls can relate to real-wald

problems / situates and apply the meth they know
to solve problems

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

well developed in Ch. J, but not in chil



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Title of Instructional Materials:	

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

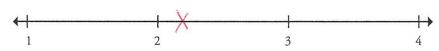
Ch. 5 Ch. 8

Summary/Justification/Evidence

in the suppliment metricle students are asked to show their methods ... which encourages using whatever tools are available

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

only in a few instances students were asked to use a graphy calculator.



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Title of Instructional Materials:	

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 5, Ch. 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

9 todats are regularly asked to respond in Complete Sentences and me appropriate labels. Also, they are repeatedly asked to check the answers for reasonableness



Reviewed By:	
Title of Instructional Materials:	

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch.5, 8

Summary/Justification/Evidence

Scaffolder questions throughout were strelets look for patterns and disuss/explain Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



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Title of Instructional Materials	

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 5, 8

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Consistent question pattern throughout helps students notice repeated reasoning and regularity



Reviewed By:	
Title of Instructional Materials:	

The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers.	Summary and documentation of how the domain, cluster, and standard ar met. Cite examples from the materials.
N-CN.1 Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real.	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence well developed and gooded from the basics
Ch.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Title of Instructional Materials:	

Perform arithmetic operations with complex numbers.	Summary and documentation met. Cite examples from the			ter, and sta	indard are
N-CN.2	Important Mathematical Ideas	4.1	1	1	×ıx
Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.	Important Mathematical Ideas	1	2	3	4
Note: i^2 as highest power of i .					
	Skills and Procedures				X
		1	2	3	4
	Mathematical Relationships				X +
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E- well developed and and examples	vidence / balan &	ed a The Con	nmuts	
Ch.7	Portions of the domain, clu developed in the instruction			missing or	not well
	Overall Rating	 	2	3	$$ ${\underset{4}{\longleftrightarrow}}$

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Title of Instructional Materials	
Title of Instructional Materials	•

Use complex numbers in polynomial identities and equations.	Summary and documentation met. Cite examples from the		e domain, clu	ster, and stand	ard are
N-CN.7 Solve quadratic equations with real coefficients that have complex solutions. Note: Polynomials with real coefficients.	Important Mathematical Ideas	 X 1	1 2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Cr.8	Portions of the domain, cludeveloped in the instruction a little inusty = transfer solution	ster, and standard materials	ndard that are (if any):	e missing or no the sit mentan	t well
	Overall Rating	1	2	3	4

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Title of Instructional Materials:	

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				dard are
N-CN.8					
(+) Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x - 2i)$.	Important Mathematical Ideas	1	2	3	4
Note: Polynomials with real coefficients.					
	Skills and Procedures	416		Ţ	
		1	2	3	4
	Mathematical Relationships	(}``			
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Ch.8	Portions of the domain, clus developed in the instruction Structures to but no discussion	ster, and stanal materials	ndard that are (if any): Sin by formally formall	missing or no	ot well
	Overall Rating	1	2	3	4

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Title of Instructional Materials:	

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and met. Cite examples from the materials.	standard are
N-CN.9	Important Mathematical Ideas	1.
(+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	1 2 3	4
Note: Polynomials with real coefficients.		
	Skills and Procedures 1 2 3	4
	Mathematical Relationships 1 2 3	→ 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence The FTA is Stated and strolats or asked to apply it but not well developed or to anything else.	e relikel
	Portions of the domain, cluster, and standard that are missing developed in the instructional materials (if any):	or not well
	Overall Rating 1 2 3	→ 4

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Title of Instructional Materials:	

Building Functions (F-BF)

Build a function that models a relationship between two quantities.	Summary and documentation met. Cite examples from the		e domain, clus	ster, and stand	ard are
F-BF.1bWrite a function that describes a relationship between two quantities.*	Important Mathematical Ideas	•			
b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	Skills and Procedures	1 \		3	4
Note: Include all types of functions studied.		1	2	3	4
	Mathematical Relationships	1	2	3	
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
entre manuscript	Portions of the domain, cludeveloped in the instruction	nal materials		missing or no	t well
	Overall Rating	1	2	3	4

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Title of Instructional Materials:	

Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
F-BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of	Important Mathematical Ideas	1	2	3	
k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.	Skills and Procedures	(X			
Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.		1	2	3	4
	Mathematical Relationships	1	2	\ 1 3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
ch.2 ch.b ch.12	Portions of the domain, clus developed in the instruction mentioned as some developed.	nal material	s (if any):		
	Overall Rating	1	X 2	3	4

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Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentation met. Cite examples from the		e domain, cluste	er, and stand	ard are
F-BF.4a 4. Find inverse functions.	Important Mathematical Ideas	407	X	3	→
a. Solve an equation of the form $f(x) = c$ for a simple function f that has an inverse and write an expression for the inverse. For example, $f(x) = 2 x^3$ or $f(x) = (x+1)/(x-1)$ for $x \ne 1$.	Skills and Procedures				
Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.	Skills and Flocedules	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Chilo	Portions of the domain, clus developed in the instruction Investor are also in graphical manning.	nal materials	(if any):		
	Overall Rating	1	2	3	4

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Title of Instructional Materials:	
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Linear, Quadratic, and Exponential Models (F-LE)

Construct and compare linear, quadratic, and exponential models and solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-LE.4	Important Mathematical Ideas
For exponential models, express as a logarithm the solution to $ab^{a} = d$ where a , c , and d are numbers and the base b is 2, 10, or e ; evaluate the logarithm using technology.*	1 2 3 4
Note: Logarithms as solutions for exponentials.	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence evaluaty ligs was a problem set
ch. 4	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): I did not find any mention that a log is the solution of about a
	Overall Rating 1 2 3 4